

The structure must be energy efficient.

Minimum Insulation Levels:

Ceiling: R-38
Walls: R-13
Floors or crawl space walls: R-11
Air infiltration: 1.0 ACH
(Natural)

Recommended Insulation Levels:

Ceiling: R-50
Walls: R-19
Floors: R-19
Basement Walls: R-11
Air infiltration: .50 ACH
(Natural)

Recommended & Minimum Insulation Levels

Duct Work: All duct work that runs through an unconditioned space must be insulated (R-13). All duct work must be properly sealed to prevent air leakage.

Doors:

Urethane core: R-13.5
Polystyrene core: R-7.5
Solid Wood w/storm: R-3.5

Attic Ventilation:

Ratio of total net free area to area of ceiling shall not be less than 1/150, except ratio may be 1/300 provided:

- A vapor barrier having a transmission rate not exceeding one perm is installed on the warm side of the ceiling; or
- At least 50% of the required ventilating area is provided by ventilation located in the upper portion of the space to be provided by eaves or cornice vents.

Windows:

Double pane insulated: R-2 or R-3
Single pane with storm windows: R-1.9

The dealer assures:

- that the heat pump installed has a Seasonal Energy Efficiency Ratio (SEER) of 13.0 or higher to qualify for the \$300 Boone Electric rebate. An additional \$150 per ton rebate is available (for a limited time) if the SEER rating is 16.5. The dealer must verify and sign a form that assures that the system (both gas furnace and heat pump) is rated as recognized by ARI with a minimum seer of 16.5. A final invoice must be provided to the Cooperative before any rebates will be paid.
- that the heat pump installed does not have electric resistance back-up heat. Any existing strip heat must be removed.
- that all criteria of a Dual Fuel installation has been met if customer wishes to receive discount, rate and rebates of the Dual Fuel program.
- that the heating duct work has a minimum cubic feet per minute (CFM) of 400 per ton.
- that the installation has an outside thermostat, or an indoor thermostat with an external temperature sensor, set to disengage the heat pump at 15°F. Boone Electric must be provided with a procedure to verify and reset control centers.
- insulate duct work that passes through unconditioned space.
- the dealer will provide the interface kit, required by the manufacturer, to install a heat pump with a gas furnace as part of the installation.
- Boone Electric recommends that all homes wishing to apply for the Dual Fuel Program have the following insulating factors: Ceiling R-50, Walls R-19, Floors R-19, Basement Walls R-11, and maximum Air Changes per Hour (ACH) .50 (Natural).
- all homes must have minimum insulating factors as follows to be eligible for the Dual Fuel Program: Ceiling R-38, Walls R-13, and Floors R-13.
- if, after any inspection by a Boone Electric representative, there is found to be any tampering of off-peak equipment, including by not limited to changing control temperature settings, the off-peak rate will be discontinued permanently.
- if applicable, the dealer must verify the system as to a 16.5 SEER rating and supply the ARI reference number on rebate form.